



Attorney's Docket No.: 00786-804001 / MGH 1721.1

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : M. Amin Arnaout et al.
Serial No. : 09/758,493
Filed : January 11, 2001
Title : HIGH AFFINITY INTEGRIN POLYPEPTIDES AND USES THEREOF

Art Unit : 1645
Examiner : Unknown

NOV 28 2001

Commissioner for Patents
Washington, D.C. 20231

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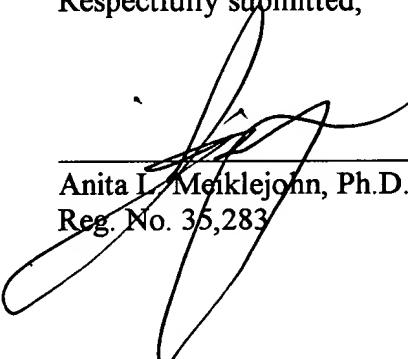
INFORMATION DISCLOSURE STATEMENT

Applicants submit the references listed on the attached form PTO-1449, copies of which are enclosed.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 14 NOV 2001


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Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 00786-804001	Application No. 09/758,493
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant M. Amin Arnaout et al.			
		Filing Date January 11, 2001	Group Art Unit 1645		

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes No
	AB						

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AC	Baldwin et al., "Cation binding to the integrin CD11b I domain and activation model assessment", <u>Structure</u> , 6:923-935 (1998)
	AD	Edwards et al., "Mapping the Intercellular Adhesion Molecule-1 and -2 Binding Site on the Inserted Domain of Leukocyte Function-associated Antigen-1", <u>The Journal of Biological Chemistry</u> , 273:28937-28944 (1998)
	AE	Emsley et al., "Structural Basis of Collagen Recognition by Integrin $\alpha 2\beta 1$ ", <u>Cell</u> , 100:47-56 (2000)
	AF	Emsley et al., "Crystal Structure of the I Domain from Integrin $\alpha 2\beta 1$ ", <u>The Journal of Biological Chemistry</u> , 272:28512-28517 (1997)
	AG	Feng et al., "Peptides Derived from the Complementarity-determining Regions of Anti-Mac-1 Antibodies Block Intercellular Adhesion Molecule-1 Interaction with Mac-1", <u>The Journal of Biological Chemistry</u> , 273:5625-5630 (1998)
	AH	Kamata T and Takada Y, "Direct Binding of Collagen to the I Domain of Integrin $\alpha 2\beta 1$ (VLA-2, CD49b/CD29) in a Divalent Cation-independent Manner", <u>The Journal of Biological Chemistry</u> , 269:26006-26010 (1994)
	AI	Kern et al., "The Role of the I Domain in Ligand Binding of the Human Integrin $\alpha 1\beta 1$ ", <u>The Journal of Biological Chemistry</u> , 269:22811-22816 (1994)
	AJ	Lee et al., "Crystal Structure of the A Domain from the α Subunit of Integrin CR3 (CD11b/CD18)", <u>Cell</u> , 80:631-638 (1995)
	AK	Lee et al., "Two conformations of the integrin A-domain (I-domain): a pathway for activation?", <u>Structure</u> , 3:1333-1340 (1995)
	AL	Legge et al., "NMR Solution Structure of the Inserted Domain of Human Leukocyte Function Associated Antigen-1", <u>Journal of Molecular Biology</u> , 295:1251-1264 (2000)
	AM	Li et al., "Two Functional States of the CD11b A-Domain: Correlations with Key Features of Two Mn ²⁺ -complexed Crystal Structures", <u>The Journal of Cell Biology</u> , 143:1523-1534 (1998)
	AN	Michishita et al., "A Novel Divalent Cation-Binding Site in the A Domain of the $\beta 2$ Integrin CR3 (CD11b/CD18) Is Essential for Ligand Binding", <u>Cell</u> , 72:857-867 (1993)
	AO	Nolte et al., "Crystal structure of the $\alpha 1\beta 1$ integrin I-domain: insights into integrin I-domain function", <u>FEBS Letters</u> , 452:379-385 (1999)
	AP	Oxvig et al., "Conformational changes in tertiary structure near the ligand binding site of an integrin I domain", <u>Proc. Natl. Acad. Sci. USA</u> , 96:2215-2220 (1999)

Examiner Signature	Date Considered
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		Filing Date January 11, 2001	Group Art Unit 1645

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Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AQ	Rieu et al., "Solvent-accessible Residues on the Metal Ion-dependent Adhesion Site Face of Integrin CR3 Mediate Its Binding to the Neutrophil Inhibitory Factor", <u>The Journal of Biological Chemistry</u> , 271:15858-15861 (1996)
	AR	Smith JW and Cheresh DA, "The Arg-Cly-Asp Binding Domain of the Vitronectin Receptor", <u>The Journal of Biological Chemistry</u> , 263:18726-18731 (1988)
	AS	Zhang L and Plow EF, "A Discrete Site Modulates Activation of I Domains", <u>The Journal of Biological Chemistry</u> , 271:29953-29957 (1996)
	AT	Zhang L and Plow EF, "Amino Acid Sequences within the α Subunit of Integrin $\alpha_M\beta_2$ (Mac-1) Critical for Specific Recognition of C3bi", <u>Biochemistry</u> , 38:8064--8071 (1999)
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